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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,734	12/27/2000	Sanjay S. Natarajan	42390P10050	7194
8791	7590 06/08/2004		EXAM	INER
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR			GURLEY, LYNNE ANN	
	LES, CA 90025	VENTH FLOOR	ART UNIT	PAPER NUMBER
	·		2812	
			DATE MAILED: 06/08/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

			<i>(</i>
	Application No.	Applicant(s)	<b></b>
Office Action Summary	09/750,734	NATARAJAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Lynne A. Gurley	2812	
The MAILING DATE of this communication app Period for Reply	ears on the cover she t wi	th the correspondenc address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re within the statutory minimum of thirt will apply and will expire SIX (6) MON cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communic  ANDONED (35 U.S.C. § 133).	eation.
Status	,		
1) Responsive to communication(s) filed on 18 M	arch 2004.		
· _ · ·	action is non-final.		
3) Since this application is in condition for allowar		ers, prosecution as to the merit	ts is
closed in accordance with the practice under E	•	• •	
Disposition of Claims			
4)⊠ Claim(s) <u>1-18,20,21 and 23-29</u> is/are pending i	in the application.		
4a) Of the above claim(s) 14-17 is/are withdraw	n from consideration.		
5)⊠ Claim(s) <u>1-7,18,20,24,26,28 and 29</u> is/are allow	wed.		
6) Claim(s) <u>8-13,21,23,25 and 27</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	r.		
10)⊠ The drawing(s) filed on <u>27 December 2000</u> is/a	re: a) $igtize$ accepted or b) $igsqcup$	objected to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	÷ = 1	· •	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152	2.
Priority under 35 U.S.C. § 119			
<ul> <li>12) ☐ Acknowledgment is made of a claim for foreign</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority documents</li> <li>2. ☐ Certified copies of the priority documents</li> <li>3. ☐ Copies of the certified copies of the priority application from the International Bureau</li> </ul>	s have been received. s have been received in A ity documents have been	pplication No	ı
* See the attached detailed Office action for a list	of the certified copies not	received.	
		Spent . Sherley	_
		LÝNNE A. URLEY / PRIMARY PATENT EXAMINE	R
Attachment(s)	л <b>п</b>	TC 2800, AU 2812 ummary (P10-413)	
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔟 Interview S Paper No(s	ummary (PTO-413) )/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		formal Patent Application (PTO-152)	

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This Office Action is in response to the amendment filed 3/18/04.

Currently, claims 1-18, 20-21 and 23-29 are pending. Claims 14-17 have been withdrawn.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 8-13, 21, 23, 25 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Braeckelmann et al. (US 6,475,925, dated 11/5/02, filed 4/10/00).

Braeckelmann shows the method as claimed in figures 3-6 and corresponding text, with alternating layers 202 etch stop, 204 base, 206 low-k and 208 cap which is configures to suppress substrate reflections during patterning by the addition of ARC layer 302. The sequence of layers is repeated in figures 5-6. Silicon dioxide is disclosed. As well as silicon nitride. A second dielectric is between the first dielectric and the substrate. The interconnection line is a first level interconnection line.

### Allowable Subject Matter

3. Claims 1-7, 18, 20, 24, 26, and 28-29 are allowed.

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## Response to Arguments

4. Applicant's arguments, see the amendment, filed 3/18/04, with respect to the rejection(s) of claim(s) 1-13, 18, 20-21, and 23-29 under 35 USC 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Braeckelmann et al. (US 6,475,925).

#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne A. Gurley whose telephone number is 571-272-1670. The examiner can normally be reached on M-F 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 571-272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne A. Gurley / Primary Patent Examiner TC 2800, AU 2812

LAG June 4, 2004